

**To:** Way, Steven[way.steven@epa.gov]  
**From:** Matt Francis  
**Sent:** Tue 7/7/2015 4:57:12 PM  
**Subject:** RE: Red and Bonita - Extended Pond Capacity and Liner Calculations

That's 2X my calc. I'll get some more.

**From:** Way, Steven [mailto:way.steven@epa.gov]  
**Sent:** Tuesday, July 07, 2015 10:53 AM  
**To:** Matt Francis  
**Subject:** FW: Red and Bonita - Extended Pond Capacity and Liner Calculations

Steven Way

Federal On-Scene Coordinator

Emergency Response Unit

US EPA - Region 8

1595 Wynkoop Street

Denver, CO 80202

Office: 303-312-6723

**From:** Petri, Elliott [mailto:Elliott.Petri@WestonSolutions.com]  
**Sent:** Wednesday, July 01, 2015 11:04 AM  
**To:** Way, Steven  
**Cc:** Christner, Jan  
**Subject:** RE: Red and Bonita - Extended Pond Capacity and Liner Calculations

Hi Steve,

I have revised the pond calculations to account for the higher flow we found on site this year (500 GPM), I have also attached a draft drawing of the pond expansion per our discussions on site. With the increased flow the overall retention time for the expanded pond dropped from 5.5 hours to 3.3 hours. Naturally the longer the water is in the ponds the better the quality will be, but with the limited space to the north the proposed option in the word document is still considered the best option. Please review the attached document and figure and send me any edits or comments you have on either.

Thanks,  
Elliott

Elliott Petri, PE

Weston Solutions, Inc.

1435 Garrison St, Ste 100

Lakewood, CO 80215

Ph: 303-729-6156

Cell: 719-216-2754

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**From:** Petri, Elliott

**Sent:** Tuesday, April 14, 2015 4:34 PM

**To:** Way, Steven ([way.steven@epa.gov](mailto:way.steven@epa.gov))

**Cc:** Christner, Jan

**Subject:** Red and Bonita - Extended Pond Capacity and Liner Calculations

Hi Steve,

Please find attached a word document outlining the capacity options for the expanded pond and an estimate for the liner required for the expanded pond. The current pond dimensions were estimated from google earth imagery to match the final product as built in the field. Also, if needed I can provide you with calculations for lining the current pond with higher berms or

extending the pond without adding a third internal berm.

Please let me know if you have any questions or need additional information on the treatment pond options.

Thank You,

Elliott

**Elliott Petri, PE**

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